

**NCBI**

Molecular Biology Review

Introductory Course



Amino Acid Abbreviations (IUPAC)

Authority Reference IUPAC-IUB Joint Commission on Biochemical Nomenclature.
IUPAC-IUB Joint Commission on Biochemical Nomenclature.
Nomenclature and Symbolism for Amino Acids and Peptides.
Eur. J. Biochem. 138:9-37(1984).

Scope /anticodon, /codon, /transl_except

Contact EMBL

Listing (note that the abbreviations are legal values for amino acids, not the full names)

Abbreviation	Amino acid name
Ala	Alanine
Arg	Arginine
Asn	Asparagine
Asp	Aspartic acid (Aspartate)
Cys	Cysteine
Gln	Glutamine
Glu	Glutamic acid (Glutamate)
Gly	Glycine
His	Histidine
Ile	Isoleucine
Leu	Leucine
Lys	Lysine
Met	Methionine
Phe	Phenylalanine
Pro	Proline
Ser	Serine
Thr	Threonine

Trp	W	Tryptophan
Tyr	Y	Tyrosine
Val	V	Valine
Asx	B	Aspartic acid or Asparagine
Glx	Z	Glutamine or Glutamic acid.
Xaa	X	Any amino acid.
TERM		termination codon

Source: Appendix V: Controlled Vocabularies of the DDBJ/EMBL/GenBank Feature Table Definition, Version 4.0 Dec 15 2001

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